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Application No.: 10/735,602

Docket No.: JCLA10516-R2

around the spray neck of the spray nozzle and is released in a direction perpendicular to a direction of the flow of the gas, and the spray tube is a diverging straight tube, so that a discharge speed of the sample solution is supersonic and the biological material is evenly injected into a target, wherein the biological material is delivered without using ~~metal particle~~ carriers.

Claim 12. (original) The method of claim 11, wherein the sample solution is accelerated to a speed of 200-300 m/s by the gas.

Claim 13. (previously presented) The method of claim 11, wherein a pressure at the sprayer's outlet is about 1 atmospheric pressure.

Claim 14. (previously presented) The method of claim 11, wherein a range of the interior contour of the converging part includes:

$r_t < R_t < 2r_t$, wherein R_t represents a curvature radius of the converging part, r_t is a radius of the spray neck; and

wherein $\Theta < 15$ degrees, wherein Θ is an angle between the diverging part and a center axis of the spray tube.

Claim 15. (cancelled)